

CLAIMS

Please amend the claims as follows:

Listing of Claims

1. (Currently Amended) A method of transferring a file to or from a server past a firewall, comprising the steps of:

accessing a web site behind the firewall, the web site having a web page including an applet, and the web site associated with the server;

receiving the web page and the applet from the web site;

sending the applet to an application at a file transfer gateway; and

transferring the file between the file transfer gateway and the server through the firewall;

wherein the file is pushed from the server through the firewall to the file transfer gateway by a target registering with the server behind the firewall, polling the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel and by the server receiving a registration at the server behind the firewall, receiving polling of the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel; and wherein the downloading the file from the server through the firewall permits transferring a large file in chunks.

2. (Original) A method as in claim 1, wherein the web site is at a collaboration manager separate from the server.
3. (Original) A method as in claim 1, wherein the applet is signed responsive to authorization of a user accessing the web site.
4. (Original) A method as in claim 1, wherein accessing the web site and receiving the web page and the applet are performed using a web browser.
5. (Original) A method as in claim 4, wherein the web browser and the file transfer gateway are implemented on a client.
6. (Original) A method as in claim 1, wherein the application at the file transfer gateway is a file transfer service implemented on a client or edgebox.
7. (Original) A method as in claim 6, wherein transferring the file between the file transfer gateway and the server is performed over a virtual channel between the file transfer service at the file transfer gateway and a file transfer adapter at the server.
8. (Original) A method as in claim 1, wherein the file is transferred in chunks.

9. (Previously presented) A method as in claim 8, wherein the chunks are transferred using a basic hypertext transport mechanism.
10. (Original) A method as in claim 1, further comprising the step of encrypting, decrypting, or performing some other operation on the file before or after transferring the file.
11. (Currently Amended) A method of transferring a file to or from a server past a firewall, comprising the steps of:
- authenticating access by a requestor to a web site behind the firewall, the web site having a web page including an applet, and the web site associated with the server;
 - sending the web page and the applet to the requestor;
 - receiving a request from the requestor to transfer the file to or from the requestor; and
 - transferring the file between ~~a~~ the file transfer gateway and the server through the firewall;
- wherein the file is pushed from the server through the firewall to the file transfer gateway by a target registering with the server behind the firewall, polling the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel and by the server receiving a registration at the server behind the firewall, receiving polling of the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel; and wherein the downloading the file from the server through the firewall permits transferring a large file in chunks.

12. (Original) A method as in claim 11, wherein the requestor is a browser or edgebox.
13. (Original) A method as in claim 11, wherein the applet is signed responsive to authorization of the requestor.
14. (Original) A method as in claim 11, wherein the web site is at a collaboration manager separate from the server.
15. (Original) A method as in claim 11, wherein transferring the file between the file transfer gateway and the server is performed over a virtual channel between a file transfer service at the file transfer gateway and a file transfer adapter at the server.
16. (Original) A method as in claim 11, wherein the file is transferred in chunks.
17. (Original) A method as in claim 16, wherein the chunks are transferred using a basic hypertext transport mechanism.
18. (Original) A method as in claim 11, further comprising the step of encrypting, decrypting, or performing some other operation on the file before or after transferring the file.

19. (Previously amended) A method of downloading a file from a server past a firewall, comprising the steps of:

registering with the server behind the firewall;

polling the server for files to be downloaded; and

downloading the file from the server through the firewall over a virtual channel;

wherein the file is transferred in chunks using a basic hypertext transport mechanism;

and

wherein the file is pushed from the server through the firewall by a target registering with the server behind the firewall, polling the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel and by the server receiving a registration at the server behind the firewall, receiving polling of the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel.

20. (Original) A method as in claim 19, further comprising the step of encrypting, decrypting, or performing some other operation on the file before or after transferring the file.

21. (Previously Amended) A method of downloading a file from a server past a firewall, comprising the steps of:

receiving a registration at the server behind the firewall;

receiving polling of the server for files to be downloaded; and

- downloading the file from the server through the firewall over a virtual channel;
wherein the file is transferred in chunks using a basic hypertext transport mechanism;
wherein the file is pushed from the server through the firewall by a target registering with the server behind the firewall, polling the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel and by the server receiving a registration at the server behind the firewall, receiving polling of the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel.
22. (Original) A method as in claim 21, further comprising the step of encrypting, decrypting, or performing some other operation on the file before or after transferring the file.
23. (New) A method as in claim 2, further comprising the step of checking the file out from the collaboration manager to the server.
24. (New) A method as in claim 14, further comprising the step of checking the file out from the collaboration manager to the server.
25. (New) A method as in claim 1, further comprising the step of negotiating context information for transferring the file, wherein the server accepts or alters recommended context information sent by the file transfer gateway to the server.

26. (New) A method as in claim 25, wherein the recommended context information comprises quality of service information and recommended file transfer parameters.
27. (New) A method as in claim 11, further comprising the step of negotiating context information for transferring the file, wherein the server accepts or alters recommended context information sent by the file transfer gateway to the server.
28. (New) A method as in claim 27, wherein the recommended context information comprises quality of service information and recommended file transfer parameters.
29. (New) A method as in claim 19 further comprising the step of negotiating context information for transferring the file, wherein the server accepts or alters recommended context information sent by the target to the server.
30. (New) A method as in claim 29, wherein the recommended context information comprises quality of service information and recommended file transfer parameters.
31. (New) A method as in claim 21, further comprising the step of negotiating context information for transferring the file, wherein the server accepts or alters recommended context information sent by the target to the server.

32. (New) A method as in claim 31, wherein the recommended context information comprises quality of service information and recommended file transfer parameters.
33. (New) A method as in claim 1, wherein the file is in excess of 1 Gigabyte.
34. (New) A method as in claim 11, wherein the file is in excess of 1 Gigabyte.